

**AMENDMENTS TO THE SPECIFICATION:**

*Please replace the existing title with the following new title:*

Apparatus and Method for Extracting Syllabic Nuclei

**AMENDMENTS TO THE SPECIFICATION:**

In the Specification, please remove the word DESCRIPTION above the title of the invention on page 1.

In the Specification, please remove the words [Word Definition 1] below the Background Art on page 1.

In the Specification, please remove the word [Prior Art] above the last paragraph below on page 1.

In the specification, please remove words [Word Definition 2] in line 25 on page 8.

In the Specification, please remove the [References] listed on page 23 bridging with 24 as follows:

**[References]**

- (1) Sundberg, J. (1987). The science of the singing voice, Northern Illinois University Press, DeKalb, Illinois.
- (2) Alku, P. & Vilkman, E. (1996). “Amplitude-domain quotient for characterization of the glottal volume velocity waveform estimated by inverse filtering”, SpeechComm., 18(2), 131-138.
- (3) Hermes, D. (1988). “Measurement of pitch by subharmonic summation”, J. Acoust. Soc. Am. 83(1), 257-264.
- (4) Mermelstein, P. (1975). “Automatic segmentation of speech into syllabic units”, J. Acoust. Soc. Am. 58(4), 880-883.
- (5) Lea, W. A. (1980). “Prosodic aids to speech recognition”, in Lea, W.A. (ed.), Trends in Speech Recognition, Prentice Hall, New Jersey, 166-205.
- (6) Broad, D. J. & Clermont, F. (1989). “Formant estimation by linear transformation of the LPC cepstrum”, J. Acoust. Soc. Am. 86 (5), 2013-2017.
- (7) Mokhtari, P., Iida, A. & Campbell, N. (2001). “Some articulatory correlates of emotion variability in speech : a preliminary study on spoken Japanese vowels”, Proc. Int. Conf. on Speech Process., Taejon, Korea, 431-436.

(8) Peterson, G. E., & Shoup, J. E. (1966). "A physiological theory of phonetics", *J. Speech Hear. Res.*, 9, 5-67.

(9) Iida, A., Campbell, N., Iga, S., Higuchi, F. & Yasumura, M. (1998). "Acoustic nature and perceptual testing of corpora of emotional speech", *Proc. 5th Int. Conf. on Spoken Lang. Process.*, 1559-1562.

In the Specification, please replace "References1 listed on the last part of the specification" of line 2 with the following:

"The science of the singing voice," Sundberg, J., Northern Illinois University Press, Delcalb, Illinois, (1987) (hereafter 'Soundberg')."

In the Specification, please replace "Reference 2 to be its relative independence of the sound pressure level (SPL) and its reliance primarily on phonatory quality." starting from line 13 with the following:

"Amplitude domain quotient for characterization of the glottal volume velocity waveform estimated by inverse filtering", Alku, P. & Vilkman, E., *Speech Comm.*, 18(2), 131-138, (1996) (hereafter 'Alku'). In Alku, it is explained that one advantage of AQ is its relative independence of the sound pressure level (SPL) and its reliance primarily on phonatory quality."

In the Specification, please replace "The author of Reference 2" on line 18 with "Alku".

In the Specification, please replace "(Reference 2, p. 136)" on line 21 with "(See Alku, p. 136)".